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	Application No.	Applicant(s)	
	10/628,868	BOCIAN ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Christian Wilson	2891	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGOT THE Office or upon petition by the applicant. See 37 CFR 1.313	OR REMAINS) CLOSED in the or other appropriate communice. This application is substitution in substitution in the communication in the	nis application. If not included cation will be mailed in due course. T	
1. \boxtimes This communication is responsive to <u>the election of 3/7/05</u> .			
2. The allowed claim(s) is/are 1-38 and 59-62.			
3. \boxtimes The drawings filed on <u>28 July 2003</u> are accepted by the Exa	aminer.		
4. ☐ Acknowledgment is made of a claim for foreign priority und a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMITHIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submittinformal PATENT APPLICATION (PTO-152) which give 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftsperson 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.1 each sheet. Replacement sheet(s) should be labeled as such in the paper No./Mail Date DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT Foreign and priority	been received. been received in Application uments have been received in Application of this communication to file a ENT of this application. Itted. Note the attached EXAN is reason(s) why the oath or did be submitted. It be submitted. In a Patent Drawing Review (Amendment / Comment or in the header according to 37 CFR is it of BIOLOGICAL MATER	No In this national stage application from a this national stage application from a reply complying with the requirement IINER'S AMENDMENT or NOTICE Of eclaration is deficient. PTO-948) attached at the Office action of the Office action of the Lack of the Internation is the front (not the back) of the Internation in the front (not the back) of the Internation in the submitted. Note the	is
 Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/06 Paper No./Mail Date 12062004 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. ☐ Interview Sun Paper No./M B), 7. ⊠ Examiner's Al	ail Date mendment/Comment atement of Reasons for Allowance	

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Tom Hunter on April 8, 2005.

The application has been amended as follows:

Cancel claims 39 - 58 and 63.

Replace claim 62 with the following:

62. A kit for coupling an organic molecule to the surface of a type III, IV, or V material, said kit comprising:

a container containing a heat resistant organic molecule derivatized with an attachment group, and

instructional materials teaching coupling the organic molecule to the surface by heating the surface to a temperature of about 200 °C or more.

In the specification, paragraph [0113], line 12, replace "200" with "170".

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2. The following is an examiner's statement of reasons for allowance: the applicant discloses a novel method of covalently coupling an organic molecule to the surface of a group III, IV, or V element where, in the context of the entire claim, the surface is heated to at least about 200 °C where the attachment group forms a covalent bond with the surface.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

- 3. A copy of the search history (EAST and STN) is enclosed.
- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The cited prior art describes methods of forming organic memory structures by covalently bonding an organic molecule to a substrate and prior art mentioned in the specification which was not listed on the IDS filed on December 6, 2004.

In particular, Liu et al. (Synthesis of porphyrins bearing hydrocarbon tethers and facile covalent attachment to Si(100)) teaches a heating method of at least 200 °C, but was published after the effective filing date of the application. Roth et al. (Measurements of electron-transfer rates of charge-storage molecular monolayers on Si(100)) also teaches a heating method but only to a temperature of 170 °C.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christian Wilson whose telephone number is (571) 272-1886. The examiner can normally be reached on weekdays, 7:30 AM to 4 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bill Baumeister can be reached on (571) 272-1722. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Christian Wilson, Ph.D. Primary Examiner

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CDW